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The method is based primarily on the anode dissolving of metal. During the sharpening process, the blades of scalpels are simultaneously polished, with the result that the blade obtains a shiny anticorrosive coating. The apparatus for this new sharpening process is portable and can be mounted almost anywhere. It does not emit harmful gases and can even be assembled and operated right next to the operating table. The apparatus consists of an AC rectifier, a thermo-regulator, and an electrolyte bath containing a special solution. The electrolyte is very stable, and it has been determined that if the unit is operated in dry surroundings and a minimum of water falls into the solution, it can be used for a long time without changing.

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